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Chrono

ROUTING AND RECORD SHEET

SUBJECT: (Optional) July 15 Meeting on Low Cost Automated Bureaus

STAT **FROM:** C/ADD/ESG

EXTENSION [redacted] NO. ADD-29/86

DATE 17 July 1986

TO: (Officer designation, room number, and building)	DATE RECEIVED	DATE FORWARDED	OFFICER'S INITIALS	COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.)
1. C/ESG	7/21/86		Ray	This has been coordinated with Operations Group.
2. C/E&PS		7/21	DR	
3. D/FBIS			[illegible]	Karen, Copies with attachment to all Group & Staffs.
4. C/ADD				
5. c/ESG				
STAT 6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

FORM 1-79 **610** USE PREVIOUS EDITIONS

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ADD-29/86
17 July 1986

MEMORANDUM FOR: Director, Foreign Broadcast Information Service

STAT FROM: [redacted]
Chief, Advanced Development Division, ESG/FBIS

SUBJECT: July 15 Meeting on Low Cost Automated Bureaus

1. This memorandum summarizes the decisions reached as a result of the July 15 meeting on bureaus.

2. The attachment shows the briefing charts used by C/ADD to describe the alternatives for Low Cost Automated Bureaus. As a result of the briefing and accompanying discussion, it was decided to pursue PC LANs with a separate off-the-shelf front end communication subsystem (e.g. Sidereal) for the AUTODIN bureaus. At CDR, the separate communications subsystem may be dropped depending on risk analysis performed as part of the design process.

3. As part of the approach to bureau design, it was agreed to pursue Vienna LAN Phases 1B and 2. Phase 1B is to be implemented by the ADD/GE/CRW/LEC team, followed by Phase 2 led by LEC and supported by the rest of the team.

4. Operation Group will continue to have the responsibility of prioritizing the order of bureau installation, including dropping some bureaus from automation.

STAT [redacted]

Attachment

APPROVED:

STAT [redacted]

Director, Foreign Broadcast Information Service

22 July 86
Date

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SUBJECT: July 15 Meeting on Low Cost Automated Bureaus

STAT DS&T/ESG/ADD/FBIS [redacted] (17Jul86)

Distribution:
Original - Addressee
1 - D/FBIS Chrono
1 - HSM Corres File
1 - All Groups and Staffs
1 - FBIS Registry

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LOW COST AUTOMATED BUREAUS

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- LAST BRIEFING

  - AGREED ON LEVEL OF INSTALLATION, TRAINING, & MAINTENANCE
  - SHOWED LOW COST APPROACH VIABLE

- THIS BRIEFING

  - COMPARISON OF FOUR APPROACHES
    - MICRO VAX
    - PC LAN
    - PC LAN WITH MICRO VAX
    - PC LAN WITH COMMUNICATIONS SYSTEM (E.G. SIDEREAL)
      FOR AUTODIN BUREAUS

- DISCUSSION OF VIENNA LAN PROJECT

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BUREAU INSTALLATION

- INSTALL AND TEST EQUIPMENT
- INTEGRATE COMMUNICATIONS DEVICES AND LINES
- INTEGRATE SITE-RESIDENT PC'S AND TERMINALS
- CONDUCT SITE ACCEPTANCE TESTS AND O.R.D.
- PROVIDE ONE-MONTH POST DELIVERY SUPPORT
  - CONDUCT OJT ON OPERATIONS AND MAINTENANCE
  - ESTABLISH LOGISTICS PIPELINE FOR CONTINUED SUPPORT

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TRAINING AT BUREAUS

- COMMUNICATIONS OPERATORS
  - TRAINING ON COMMUNICATIONS SYSTEM
- MONITOR/EDITOR TRAINING
  - TERMINAL OPERATION
  - WORD PROCESSING SOFTWARE
  - AUTOMATED WORK FLOW
- MAINTENANCE TRAINING
  - SYSTEMS PERFORMANCE MONITORING
  - DIAGNOSTICS ROUTINES
  - MODULE REPLACEMENTS
- CONTINUE OJT THROUGH THE POST DELIVERY SUPPORT PERIOD

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MAINTENANCE CONCEPT

MAINTENANCE:

- RESPONSIBILITY OF THE FIELD BUREAU
- LEC WILL PROVIDE MAINTENANCE TRAINING AT THE MODULE REPLACEMENT LEVEL

SPARES:

- RECOMMENDED SITE SPARES COMPLEMENT EACH BUREAU
- DEPOT SPARES POSITIONED AT:

  PLAINFIELD - (TO RESTON AT EOC)
  OKINAWA
  LONDON

REPAIRS:

- FAILED PARTS RETURNED TO DEPOT FOR REPAIR/REPLACEMENT

TECH SUPPORT:

- TWO LEC FIELD ENGINEERS DEDICATED FOR MAINTENANCE CALLS AND OJT FOLLOW-UP THROUGH EOC.

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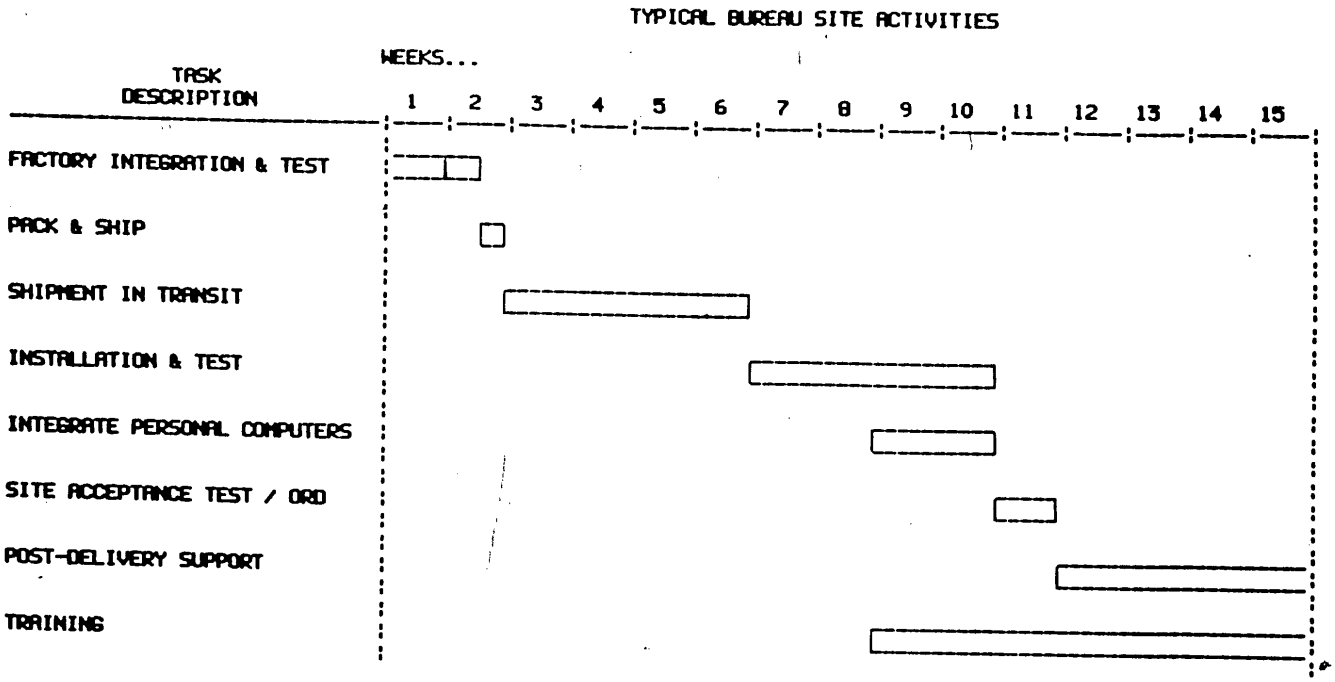

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LABOR COSTS
Hours by WBS

WBS	DESCRIPTION	B/L	LCuVAX	PCLAN	PCLAN+CS	uV+PCLAN
BD	SYSTEMS DESIGN	13128	9400	6800	6950	8800
BDA	ANAL.,DEF. & DSGN	5876	4500	3200	3300	3600
BDB	DESIGN REVIEWS	1073	700	400	500	700
BDC	INTERFACES	651	500	400	350	600
BDD	SPECS	751	600	400	400	600
BDE	CONOPS	1202	850	600	600	850
BDF	VERIF PLANS/PROC	200	250	300	200	25C
BDGA	SITE PLANS & PROC	3375	2000	1500	1600	2200
CD	HARDWARE ENGINEERING	3325	4800	2650	3100	4800
CDA	MECHANICAL ENG.	1520	2000	1200	1400	2200
CDB	ELECTRICAL ENGR.	1305	1900	1000	1200	2000
CDC	FIELD ENGR.	500	900	450	500	600
DC	COMM. SOFTWARE	6000	5500	4700	3100	2800
DCDA	INITIAL DESIGN	0	600	200	300	600
DCDB	FUNCTIONAL DESIGN	2323	1500	1500	900	600
DCDC	DETAILED DESIGN	1717	1500	1500	900	600
DCDD	DEV., TEST & SUPPT.	1960	1900	1500	1000	1000
DD	BUREAU SFTWR.	4340	5290	4300	4300	4400
DDA	INITIAL DESIGN	340	390	300	300	400
DDB	FUNCTIONAL DESIGN	1200	1500	1200	1200	1200
DDC	DETAILED DESIGN	1200	1500	1200	1200	1200
DDD	DEV., TEST & SUPPT.	1600	1900	1600	1600	1600
ED	FACTORY I&T	8684	4640	3650	3800	4690

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FB	TRAINING	14422	13600	10150	10600	12600
FBA	TRAINING PLANS	186	100	100	100	150
FBB	INSTRUCTION	14236	7500	6550	7000	8950
GB	SITE I&T	18796	7000	5050	6150	8500
GC	PACK & SHIP	1034	520	520	520	595
JA	PDS	25353	2940	2940	2940	2940
JB	ORD	6867	1670	1670	1670	1670
	TOTAL HOURS	101949	55360	42430	43130	51795

Summary Costs	B/L	LCuVAX	PCLAN	PCLAN+CS	uV+PCLAN
Hardware Procurement	$4,090,000	$2,590,000	$1,400,000	$1,624,000	$3,990,000
Travel	$800,000	$600,000	$600,000	$600,000	$600,000
Labor	$7,738,379	$4,490,560	$3,572,530	$3,622,230	$4,237,445
Total	$12,628,379	$7,680,560	$5,572,530	$5,846,230	$8,827,445

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	MTBF (HRS)	MDT (HRS)	# OF FRU/AVG COST	FAILURE/RECOVERY SCENARIO/IMPACTS
Micro VAX II				
Micro VAX	5000	1.5	6 /~3K	System crash/cold start on redundant system/probable data loss.
Disk	6000	2.0	3/~3K	System crash/cold start on redundant system/probable data loss.
VT V/S	10,000	.25	3/≤.5K	Loss of system control/reconfigure to alternate VT/WS
PC W/S	3500	.10	6/≤.5K	Loss of local function/if critical relocate to another W/S
PC LAN				
PC FS + NIM	3500	1.0	6/≤.5K	Loss of access to some system data/ continue stand-alone operations or reboot for single server/possible data loss
PC W/S + NIM	3500	1.0	6/≤.5K	Loss of local function/if critical relocate to another W/S
SIDEREAL PC				
PC SID	4000	1.5	6/≥2K	Loss of commo function/cold start B/U unit/possible data loss
PC FS + NIM	3500	1.0	6/≤.5K	Loss of access to some system data/ continue stand-alone operations or reboot for single server/possible data loss
PC W/S + NIM	3500	1.0	6/≤.5K	Loss of local function/if critical relocate to another W/S
MICRO VAX II-LAN				
Micro VAX	5000	1.5	6/~3K	Loss of commo archive functions/cold start B/U unit/possible data loss
Disk	6000	2.0	3/~3K	Loss of commo archive functions/cold start B/U unit/possible data loss
PC FS + NIM	3500	1.0	6/≤.5K	Loss of access to some system data/ continue stand-alone operations or reboot for single server/possible data loss
PC W/S + NIM	3500	1.0	6/≤.5K	Loss of local function/if critical relocate to another W/S

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VLAN PHASE II

- OBJECTIVES OF VLAN PROJECT
- RESULTS OF VLAN PHASE I
- VLAN PHASE IB
- PHASE II OBJECTIVES
- PHASE II PLAN
- SCHEDULE
- RESOURCES

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OBJECTIVES OF VLAN PROJECT

- REFINE UNDERSTANDING & DEFINITION OF BUREAU AUTOMATION REQUIREMENTS
- ASSESS VIABILITY OF NETWORKED PC WORKSTATIONS TO SUPPORT LOW-COST BUREAU AUTOMATION
- FACILITATE FIELD ACCEPTANCE OF AUTOMATION
- ADDRESS IMMEDIATE OPERATIONAL NEEDS OF VIENNA BUREAU

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RESULTS OF VLAN PHASE I

- PHASE I SYSTEM OPERATIONAL SINCE MID-MAY 1986
  - OVER 150K WORDS PROCESSED END-TO-END IN SOFT-COPY
  - PC'S HAVE REPLACED EXTEL'S FOR MOST COMMO FUNCTIONS
  - EDITORIAL STAFF HAS BEGUN LIMITED EDITING & MESSAGE GENERATION
  - ACCEPTANCE OF SYSTEM HAS BEEN VERY ENTHUSIASTIC AND HAS EXCEEDED EXPECTATIONS
- SYSTEM AVAILABILITY/RELIABILITY EXCELLENT
  - BUREAU IS 98% SELF-SUFFICIENT FOR MAINTENANCE & TROUBLESHOOTING
- EFFECT ON STAFFING NEEDS NOT YET DETERMINED
  - WILL LIKELY ALTER STAFFING/SKILL MIX REQUIREMENTS

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RESULTS (CONT'D)

- PROBLEMS
  - SYSTEM ADMINISTRATOR WORKLOAD
  - LAN FILE SERVER STORAGE CAPACITY
    - NEW APPLICATIONS & REFERENCE FILES HAVE INCREASED STORAGE REQUIREMENTS

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VLAN PHASE IB

- 0 DELIVER, INSTALL, CHECK OUT, AND TEST (IC&T) ADDITIONAL HARDWARE & SPARES
  - NETWORK INTERFACE BOARDS
  - ADDITIONAL XT-CLONE FOR SYSTEMS ADMINISTRATOR
  - REFURBISH GULF PC'S FOR INCLUSION IN NETWORK
  - CARTRIDGE TAPE BACK-UP CAPABILITY (TBR)
  - UPGRADE FILE SERVER TO 30/40 MB (TBR)
- 0 DELIVER & IC&T SOFTWARE CORRECTIONS & ENHANCEMENTS
  - BACH/COMOUT DR CORRECTIONS
  - EVALUATE PASCAL COMOUT PROGRAM
  - LIGHTNING ENHANCEMENTS/ EVALUATION
- 0 INVESTIGATE & DEFINE PHASE II DETAILED REQUIREMENTS/DESIGN
  - PRESS AGENCY CAPTURE
  - SOFT-COPY EDITING EVALUATION
  - MULTI-FILE SERVER CONFIGURATION

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PHASE II OBJECTIVES

0 FINALIZE REQUIREMENTS FEEDBACK APPLICABLE TO LCAB IMPLEMENTATION

- COMPLETE AUTOMATION OF COMM CENTER FUNCTIONS
- SOFT-COPY EDITING CAPABILITY/EVALUATION
- ON-LINE PRESS AGENCY CAPTURE
- DUAL FILE SERVER CONFIGURATION
- INCREASE NUMBER OF MONITORS ON SYSTEM
- INVESTIGATE SPARING & MAINTAINABILITY ISSUES

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PHASE II PLAN

- PHASE IB IC&T
  - MID AUGUST
  - CLEAN-UP OF PHASE I AND ADDRESS CRITICAL NEAR-TERM NEEDS
  - INVESTIGATE DETAIL REQUIREMENTS/DESIGN ISSUES FOR PHASE II
- PHASE II

- DEFINITION & DESIGN	AUG - OCT
- DEVELOPMENT, TEST & SITE IC&T	OCT - NOV (TBR)
- SOFT-COPY EDIT EXPERIMENT/EVALUATION	DEC
- FINAL EVALUATION & INPUT TO LCAB AVAILABLE	JAN 87

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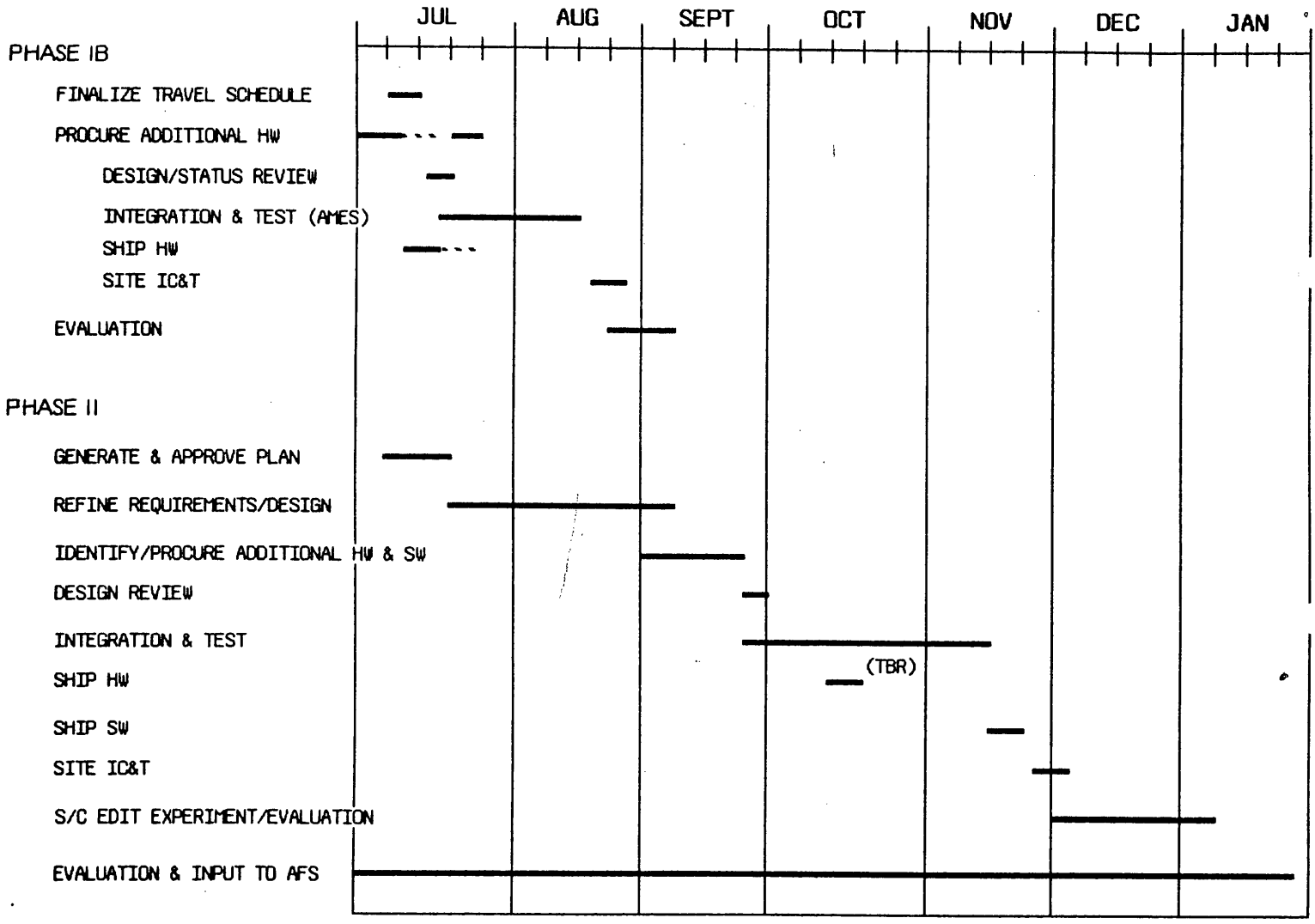
SCHEDULE



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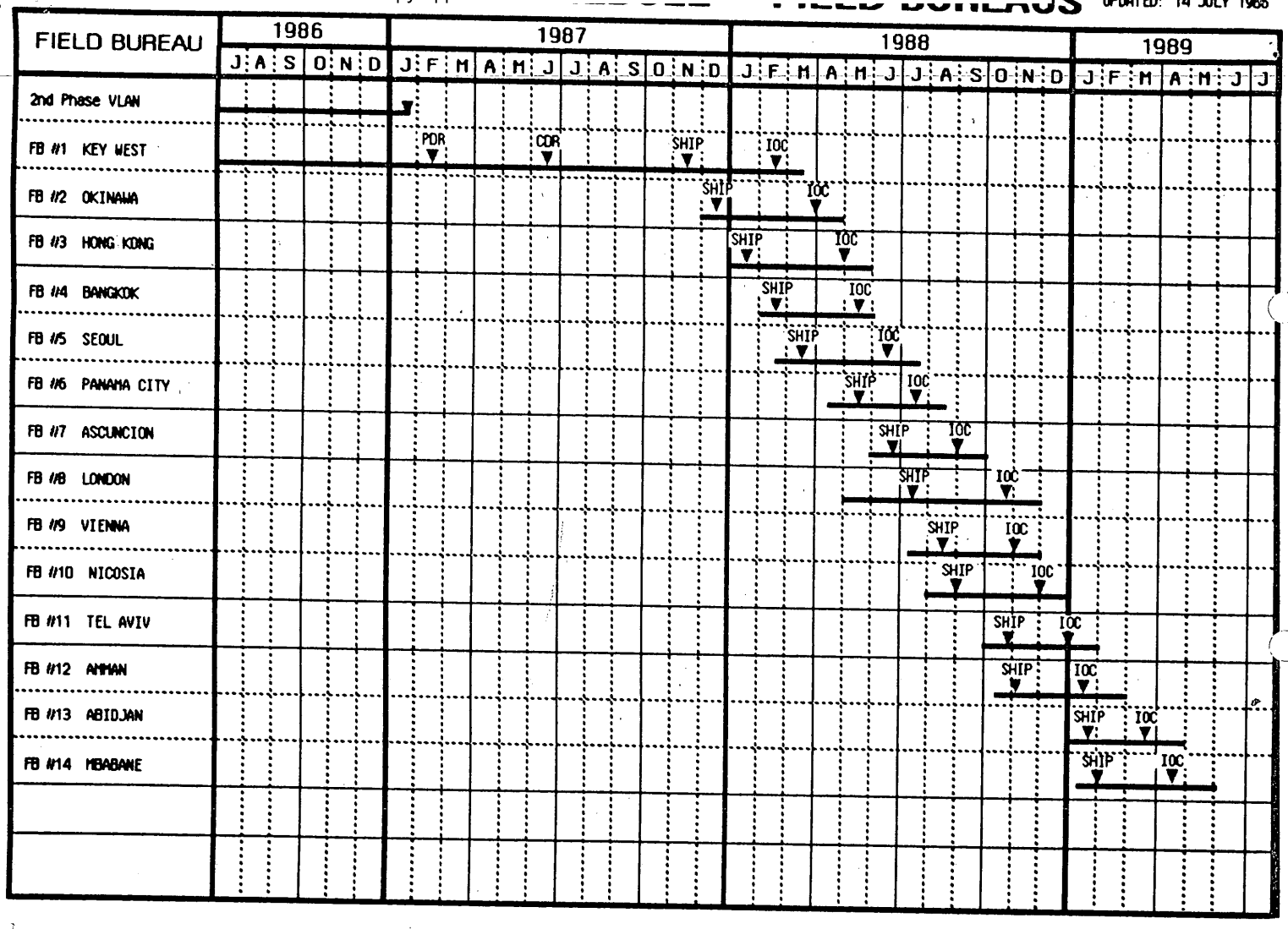
AFS PROGRAM CONTROL - FIELD BUREAUS

UPDATED: 14 JULY 1986



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